

ABSTRACT

A satellite transceiver card for use in a communication system is provided. The satellite transceiver card can selectively adjusting bandwidth allocation or provide voice across a satellite communication system supporting Internet related applications. The satellite transceiver card may simply be a TDMA or single carrier per channel based transceiver, and can adapt to different rates and/or frequencies. The satellite transceiver card may include one or more high speed receiver(s) receiving one or more high speed downlink channels. The satellite transceiver card may also include one or more uplink transmitter(s). The uplink transmitter may be a single carrier per channel, a TDMA based system, or an adaptive system allowing dynamic reconfiguration of the uplink channel bandwidth and/or frequency. The transmitter may adapt to anyone of a number of different frequencies and/or channels. Where the transmitter card includes adaptive circuitry, an earth station may dynamically reconfigure the uplink bandwidth to add additional channels and/or switch to higher capacity channels, so that the earth station may adapt to changes in demand.